

**CALIFORNIA DEPARTMENT OF FORESTRY & FIRE PROTECTION
OFFICE OF THE STATE FIRE MARSHAL
FIRE ENGINEERING - BUILDING MATERIALS LISTING PROGRAM
LISTING SERVICE**

LISTING No. 4175-1607:100

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CATEGORY: Roof Covering (Miscellaneous)

LISTEE: *BASF Corporation, 100 Enterprise Dr., Cartersville, GA 30120
Contact: Bruce Schenke (770) 387-2525 Ext 15 FAX (770) 387-9945

DESIGN: Type "Elastospray 5100 or 585" polyurethane" foam. Refer to listee's data sheet and UL Roofing Materials and Systems Directories for detailed product description and operational considerations. Approved systems:

SPRAY APPLIED FOAM AND COATING SYSTEMS

CLASS A:

1. Deck:NC Incline: 1

Foam: "Elastospray 5100 or 585", 2.5-3.0 Lb/ft³, any thickness.

Base Coat: One application United Coatings "Diathon" or "ARC" base coat, applied at 1-1/2 Gal/100 ft².

Surfacing: One application United Coatings "Diathon" or "ARC" top coat, applied at 1-1/2 Gal/100 ft².

2. Deck:NC Incline: 3

Foam: "Elastospray 5100 or 585", 2.5-3.0 Lb/ft³, any thickness.

Base Coat: One application National Coatings "Acryshield", applied at 1-1/2 Gal/100 ft².

Surfacing: One application National Coatings "Acryshield", applied at 1-1/2 Gal/100 ft².

3. Deck:NC Incline: 3

Foam: "Elastospray 5100 or 585", 2.5-3.0 Lb/ft³, any thickness.

Base Coat: One application United Coatings "Unisil 700" base coat or General electric "SCM-3300 Series" or Dow Corning "3-4000 or 3-5000 Silicone Roof Coating", applied at 1Gal/100 ft².

Surfacing: One application United Coatings "Unisil 700" base coat or General Electric "SCM-3300 Series" or Dow Corning "3-4000 or 3-5000 Silicone Roof Coating", applied at 1Gal/100 ft² or 2 coats Isothermal Protective Coatings "Acrylink" applied at 1-1/2 Gal/100 ft²/coat or Wacker Chemical "Elastosil 335" applied at 1Gal/100 ft².

4. Deck:NC Incline: 3

Foam: "Elastospray 5100 or 585", 2.5-3.0 Lb/ft³, any thickness.

Base Coat: One application Neogard "7850" series silicone, applied at 1Gal/100 ft².

Surfacing: One application Neogard "7850" series silicone, applied at 1Gal/100 ft².

5. Deck:NC Incline: 1-1/2

Foam: "Elastospray 5100 or 585", 2.5-3.0 Lb/ft³, any thickness.

Coating: Isothermal Protective Coatings "Acrylink", applied at 4Gal/100 ft², United Coatings "Diathon" or National Coatings "Acryshield" or Neogard 7200 Series applied at 3Gal/100 ft².

Surfacing: Granules at 35 Lb/100 ft².

6. Deck:NC Incline: 1

Foam: "Elastospray 5100 or 585", any thickness.

Base Sheet: One application United Coatings "Diathon", National Coatings "Acryshield", Neogard 7200 Series a 1-1/2Gal/100 ft², Isothermal Protective Coatings "Acrylink", applied at 2Gal/100 ft².

Top Coat: One application United Coatings "Diathon", National Coatings "Acryshield", Neogard 7200 Series a 1-1/2Gal/100 ft², Isothermal Protective Coatings "Acrylink", applied at 2Gal/100 ft².

7. Deck:NC Incline: 3
Foam: "Elastospray 5100 or 585", any thickness.
Base Coat: One application Neogard "7850" series silicone, applied at 1Gal/100 ft².
Surfacing: One application Neogard "7850" series silicone, applied at 1Gal/100 ft².

CLASS B:

1. Deck: C 15/32 Incline: 1/2
Foam: "Elastospray 5100", 2.5-3.0 Lb/ft³, 1.5" thick min.
Base Coat: One application United Coatings "Unisil 700" base coat or General electric "SCM-3300 Series" or Dow Corning "3-4000 or 3-5000 Silicone Roof Coating", applied at 1Gal/100 ft².
Surfacing: One application United Coatings "Unisil 700" base coat or General electric "SCM-3300 Series" or Dow Corning "3-4000 or 3-5000 Silicone Roof Coating", applied at 1Gal/100 ft².

2. Deck: C 15/32 Incline: 1/2
Foam: "Elastospray 5100", 2.5-3.0 Lb/ft³, 2" thick min.
Base Coat: One application National Coatings "Acryshield", applied at 1-1/2 Gal/100 ft².
Surfacing: One application National Coatings "Acryshield", applied at 1-1/2 Gal/100 ft².

3. Deck: C 15/32 Incline: 2
Joint Treatment: Joints blocked with 2x4 lumber.
Foam: "Elastospray 5100", 2.5-3.0 Lb/ft³, 1-1/2" thick.
Base Coat: United Coatings "Diathon", National Coatings "Acryshield", applied at 1-1/2 Gal/100 ft², DOW 3-4000 or 3-5000, United Coatings "Unisil 700" base coat, General Electric "SCM-3300 Series", Neogard "70570-70590 Series" or "7850 Series" base coat applied at 1Gal/100 ft².
Top Coat: United Coatings "Diathon", National Coatings "Acryshield", applied at 1-1/2 Gal/100 ft², DOW 3-4000 or 3-5000, United Coatings "Unisil 700" base coat, General Electric "SCM-3300 Series", Neogard "70570-70590 Series" or "7850 Series" top coat applied at 1Gal/100 ft².
Surfacing:No. 11 granules, applied at 40 Lbs/100 ft².

4. Deck: C 15/32 Incline: 1/2
Deck Treatment: 12" wide cap sheet centered over joints.
Foam: "Elastospray 5100", 2.5-3.0 Lb/ft³, 1" thick min.
Coating: United Coatings "Unisil 700", General Electric "SCM-3300 Series", Dow Corning "3-4000 or 3-5000 Silicone Roof Coating", Neogard "7850 series" or Wacker Chemical "Elastosil 335", applied at 2-3Gal/100 ft².
Surfacing: Granules at 30 Lbs/100 ft².

5. Deck: C 15/32 Incline: 1-3/4
Foam: "Elastospray 5100", 2.5-3.0 Lb/ft³, 2" thick min.
Coating: United Coatings "Unisil 700", General Electric "SCM-3300 Series", Dow Corning "3-4000 or 3-5000 Silicone Roof Coating", Neogard "7200 series" or Wacker Chemical "Elastosil 335", applied at 2-3Gal/100 ft².
Surfacing: Granules at 40 Lbs/100 ft².

6. Deck: C 15/32 Incline: 1/2
Deck Treatment: 12" wide cap sheet centered over joints.
Foam: "Elastospray 5100", 2.5-3.0 Lb/ft³, 1" thick min.
Coating: United Coatings "Diathon", National Coatings "Acryshield" or Neogard 7200 Series at 3Gal/100 ft² or Isothermal Protective Coatings "Acrylink", applied at 4Gal/100 ft².
Surfacing: Granules at 30 Lbs/100 ft².

7. Deck: C 15/32 Incline: 1-3/4
Foam: "Elastospray 5100", 2.5-3.0 Lb/ft³, 2" thick min.
Coating: Isothermal Protective Coatings "Acrylink" applied at 4Gal/100 ft², United Coatings "Diathon",
National Coatings "Acryshield" or Neogard 7200 Series at 3Gal/100 ft² or
Surfacing: Granules at 40 Lbs/100 ft².

MAINTENANCE AND REPAIR SYSTEMS

CLASS A:

1. Deck: NC Incline: 3
Existing Roof System: Class A or B smooth or gravel surfaced BUR assembly.
Foam: "Elastospray 5100", 2.5-3.0 Lb/ft³, any thickness.
Base Coat: One application United Coatings "Diathon", National Coatings "Acryshield" base coat at 1-1/2 Gal/100 ft².
Top Coat: One application United Coatings "Diathon", National Coatings "Acryshield" top coat at 1-1/2 Gal/100 ft².
Surfacing: No. 11 ceramic coated granules broadcast, applied onto wet top coat, at 40Lbs/100 ft².

2. Deck: NC Incline: 1-3/4
Existing Roof System: Class A or B smooth or gravel surfaced BUR assembly. Loose gravel may be removed.
Foam: "Elastospray 5100", any thickness.
Base Coat: One application United Coatings "Diathon", National Coatings "Acryshield", Neogard 7200 Series at 1-1/2 Gal/100 ft². Isothermal Protective Coatings "Acrylink" at 2 Gal/100 ft².
Top Coat: One application United Coatings "Diathon", National Coatings "Acryshield", Neogard 7200 Series at 1-1/2 Gal/100 ft². Isothermal Protective Coatings "Acrylink" at 2 Gal/100 ft².
Surfacing: No. 11 ceramic coated granules broadcast, applied onto wet top coat, at 40Lbs/100 ft².

CLASS B:

1. Deck: C 15/32 Incline: 2
Existing Roof System: Class B or C smooth or gravel surfaced BUR assembly.
Foam: "Elastospray 5100", 2.5-3.0 Lb/ft³, 1" thick min.
Base Coat: One application United Coatings "Diathon", National Coatings "Acryshield" base coat at 1-1/2 Gal/100 ft².
Top Coat: One application United Coatings "Diathon", National Coatings "Acryshield" top coat at 1-1/2 Gal/100 ft².
Surfacing: No. 11 ceramic coated granules broadcast, applied onto wet top coat, at 40Lbs/100 ft².

2. Deck: C 15/32 Incline: 1-3/4
Existing Roof System: Class B or C smooth or gravel surfaced BUR assembly. Loose gravel may be removed.
Foam: "Elastospray 5100", 1" thick min.
Base Coat: One application United Coatings "Diathon", National Coatings "Acryshield", Neogard 7200 Series 1-1/2 Gal/100 ft². Isothermal Protective Coatings "Acrylink" at 2 Gal/100 ft².
Top Coat: One application United Coatings "Diathon", National Coatings "Acryshield", Neogard 7200 Series 1-1/2 Gal/100 ft². Isothermal Protective Coatings "Acrylink" at 2 Gal/100 ft².
Surfacing: No. 11 ceramic coated granules broadcast, applied onto wet top coat, at 40Lbs/100 ft².

INSTALLATION: In accordance with listee's printed installation instructions, applicable codes & ordinances and in a manner acceptable to the authority having jurisdiction.

MARKING: Listee's name, product name and UL label.

APPROVAL: Listed as Class A and B roof covering assemblies as described under "Design" and when constructed in accordance to UL Roofing Materials and Systems Directory.

NOTE: *Formerly 4175-1543:100

*Rev. 6-26-03



This listing is based upon technical data submitted by the applicant. CSFM Fire Engineering staff has reviewed the test results and/or other data but does not make an independent verification of any claims. This listing is not an endorsement or recommendation of the item listed. This listing should not be used to verify correct operational requirements or installation criteria. Refer to listee's data sheet, installation instructions and/or other suitable information sources.

Date Issued:

APRIL 21, 2005

*Listing Expires **June 30, 2006***

Authorized By:

DIANE K. AREND, Senior Deputy
Program Manager